



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/669,162 B

Source: FFW16

Date Processed by STIC: 7/28/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS.

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby,
Room 1B03, Arlington, VA 22202



IFW16

RAW SEQUENCE LISTING

DATE: 07/28/2004

PATENT APPLICATION: US/10/669,162B

TIME: 15:47:40

Input Set : A:\228234_5.doc

Output Set: N:\CRF4\07282004\J669162B.raw

3 <110> APPLICANT: Breaker, Ronald R.
 4 Nahvi, Ali
 5 Sudarsan, Narasimhan
 6 Ebert, Margaret S.
 7 Winkler, Wade
 8 Barrick, Jeffrey E.
 9 Wickiser, John K.
 11 <120> TITLE OF INVENTION: RIBOSWITCHES, METHODS FOR THEIR USE, AND
 12 COMPOSITIONS FOR USE WITH RIBOSWITCHES
 14 <130> FILE REFERENCE: 25006.0016U2
 16 <140> CURRENT APPLICATION NUMBER: 10/669,162B
 17 <141> CURRENT FILING DATE: 2003-09-22
 19 <150> PRIOR APPLICATION NUMBER: 60/412,468
 20 <151> PRIOR FILING DATE: 2002-09-20
 E--> 22 <160> NUMBER OF SEQ ID NOS: 377 *Found 410*
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Does Not Comply
 Corrected Diskette Needed
(pg. 1-7)

ERRORED SEQUENCES

154 <210> SEQ ID NO: 8
 155 <211> LENGTH: 36
 156 <212> TYPE: RNA
 157 <213> ORGANISM: Artificial Sequence
 159 <220> FEATURE:
 160 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
 161 synthetic construct
 163 <220> FEATURE:
 164 <221> NAME/KEY: misc_feature
 165 <222> LOCATION: 11, 17, 20, 25, 36
 166 <223> OTHER INFORMATION: n = g, a, c or u
 168 <220> FEATURE:
 169 <221> NAME/KEY: misc_feature
 170 <222> LOCATION: 6, 35
 171 <223> OTHER INFORMATION: r = a or g
 173 <220> FEATURE:
 174 <221> NAME/KEY: misc_feature
 175 <222> LOCATION: 1-3, 15, 31
 176 <223> OTHER INFORMATION: y = c or u
 178 <400> SEQUENCE: 8
 E--> 179 *yyyucrgggc nggggygnaan ucccnaccgg yggurn*
 181 <210> SEQ ID NO: 9
 182 <211> LENGTH: 51

*please insert → 36
 numbering*

RAW SEQUENCE LISTING

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TIME: 15:47:40

Input Set : A:\228234_5.doc

Output Set: N:\CRF4\07282004\J669162B.raw

183 <212> TYPE: RNA
 184 <213> ORGANISM: Artificial Sequence
 186 <220> FEATURE:
 187 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
 188 synthetic construct
 190 <220> FEATURE:
 191 <221> NAME/KEY: misc_feature
 192 <222> LOCATION: 1, 7-9, 13, 14, 16, 18, 25, 26, 32, 33, 37, 39, 42, 43, 50,
 193 51
 194 <223> OTHER INFORMATION: n = g, a, c or u
 196 <220> FEATURE:
 197 <221> NAME/KEY: misc_feature
 198 <222> LOCATION: 38, 44
 199 <223> OTHER INFORMATION: r = a or g
 201 <220> FEATURE:
 202 <221> NAME/KEY: misc_feature
 203 <222> LOCATION: 17, 34
 204 <223> OTHER INFORMATION: y = c or u
 206 <400> SEQUENCE: 9

E--> 207 ncuuaunng agnngnynga gggannggcc cnnyganrnc cnngcaacn n Same error → 51

365 <210> SEQ ID NO: 18
 366 <211> LENGTH: 22
 367 <212> TYPE: RNA
 368 <213> ORGANISM: Arabidopsis thaliana
 370 <220> FEATURE:
 371 <221> NAME/KEY: misc_feature
 372 <222> LOCATION: 9
 373 <223> OTHER INFORMATION: d = g, a or u
 375 <220> FEATURE:
 376 <221> NAME/KEY: misc_feature
 377 <222> LOCATION: 1-7, 10-16
 378 <223> OTHER INFORMATION: n = g, a, c or u
 380 <400> SEQUENCE: 18

E--> 381 nnnnnnngdn nnnnnncuga ga Same error → 22

1043 <210> SEQ ID NO: 60
 1044 <211> LENGTH: 23
 1045 <212> TYPE: RNA
 1046 <213> ORGANISM: Bacillus subtilis
 1048 <220> FEATURE:
 1049 <221> NAME/KEY: misc_feature
 1050 <222> LOCATION: 12-131
 1051 <223> OTHER INFORMATION: n = g, a, c or u
 1053 <220> FEATURE:
 1054 <221> NAME/KEY: misc_feature
 1055 <222> LOCATION: 2, 11, 52, 53, 70, 92, 132
 1056 <223> OTHER INFORMATION: r = a or g
 1058 <220> FEATURE:
 1059 <221> NAME/KEY: misc_feature
 1060 <222> LOCATION: 3, 135

✓ Insert
=

✓ Insert
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RAW SEQUENCE LISTING

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TIME: 15:47:40

Input Set : A:\228234_5.doc

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1061 <223> OTHER INFORMATION: w = a or u
 1063 <220> FEATURE:
 1064 <221> NAME/KEY: misc_feature
 1065 <222> LOCATION: 64, 72, 93, 119, 136
 1066 <223> OTHER INFORMATION: y = c or u
 1068 <400> SEQUENCE: 60

E--> 1069 rwagagggc rnnnnnnnann agua Same error → 23
 1636 <210> SEQ ID NO: 98
 1637 <211> LENGTH: 51
 1638 <212> TYPE: RNA
 1639 <213> ORGANISM: Bacillus subtilis
 1641 <221> NAME/KEY: misc_feature
 1642 <222> LOCATION: 8, 13, 14, 26, 32, 33, 37, 41, 42, 50, 51, 54, 55, 63, 67
 1643 <223> OTHER INFORMATION: n = g, a, c or u
 1645 <220> FEATURE:
 1646 <221> NAME/KEY: misc_feature
 1647 <222> LOCATION: 18, 38, 44, 53, 68, 71, 72, 78, 79, 84, 87
 1648 <223> OTHER INFORMATION: r = a or g
 1650 <220> FEATURE:
 1651 <221> NAME/KEY: misc_feature
 1652 <222> LOCATION: 1, 17, 25, 34, 60, 74, 75
 1653 <223> OTHER INFORMATION: y = c or u

W--> 1655 <400> 98

E--> 1656 ycuuaucnag agnnggyrga gggaynggcc cnnyganrcc nncrgcaacn n Same error → 51
 7181 <210> SEQ ID NO: 379
 7182 <211> LENGTH: 30 - Found 31
 7183 <212> TYPE: RNA
 7184 <213> ORGANISM: Artificial Sequence
 7186 <220> FEATURE:
 7187 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
 7188 synthetic construct
 7190 <220> FEATURE:
 7191 <221> NAME/KEY: misc_feature
 7192 <222> LOCATION: 3-4, 7-9, 12, 14-15, 21, 24, 28-30
 7193 <223> OTHER INFORMATION: n = g, a, c or u
 7195 <220> FEATURE:
 7196 <221> NAME/KEY: misc_feature
 7197 <222> LOCATION: 1, 10, 22, 27, 31
 7198 <223> OTHER INFORMATION: r = a or g
 7200 <400> SEQUENCE: 379

E--> 7201 rannccnnnr cngncccg nrcngurnnn r 31 ✓
 7392 <210> SEQ ID NO: 388
 7393 <211> LENGTH: 19 - Found 18
 7394 <212> TYPE: RNA
 7395 <213> ORGANISM: Artificial Sequence
 7397 <220> FEATURE:
 7398 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
 7399 synthetic construct
 7401 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 07/28/2004

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TIME: 15:47:41

Input Set : A:\228234_5.doc

Output Set: N:\CRF4\07282004\J669162B.raw

7402 <221> NAME/KEY: misc_feature
7403 <222> LOCATION: 1-3, 10-11, 14-17, 19
7404 <223> OTHER INFORMATION: n = g, a, c or u
7406 <220> FEATURE:
7407 <221> NAME/KEY: misc_feature
7408 <222> LOCATION: 18
7409 <223> OTHER INFORMATION: r = a or g
7411 <220> FEATURE:
7412 <221> NAME/KEY: misc_feature
7413 <222> LOCATION: 8
7414 <223> OTHER INFORMATION: y = c or u
7416 <400> SEQUENCE: 388
--> 7417 nngügcyan necnnnnrn ¹⁹18
7498 <210> SEQ ID NO: 393
7499 <211> LENGTH: 43 Found 44
7500 <212> TYPE: RNA
7501 <213> ORGANISM: Artificial Sequence
7503 <220> FEATURE:
7504 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
7505 synthetic construct
7507 <220> FEATURE:
7508 <221> NAME/KEY: misc_feature
7509 <222> LOCATION: 1-8, 14-20, 21-22, 32-43
7510 <223> OTHER INFORMATION: n = g, a, c or u
7512 <220> FEATURE:
7513 <221> NAME/KEY: misc_feature
7514 <222> LOCATION: 9-10, 29
7515 <223> OTHER INFORMATION: r = a or g
7517 <220> FEATURE:
7518 <221> NAME/KEY: misc_feature
7519 <222> LOCATION: 23, 31
7520 <223> OTHER INFORMATION: y = c or u
7522 <400> SEQUENCE: 393
--> 7523 nnnnnnnrrr, agnnnnnnnn nnygccgarg ynnnnnnnnnn nnn ⁴³44
7567 <210> SEQ ID NO: 396
7568 <211> LENGTH: 27 Found 17
7569 <212> TYPE: RNA
7570 <213> ORGANISM: Artificial Sequence
7572 <220> FEATURE:
7573 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
7574 synthetic construct
7576 <220> FEATURE:
7577 <221> NAME/KEY: misc_feature
7578 <222> LOCATION: 1-11
7579 <223> OTHER INFORMATION: n = g, a, c or u
7581 <220> FEATURE:
7582 <221> NAME/KEY: misc_feature
7583 <222> LOCATION: 12
7584 <223> OTHER INFORMATION: y = c or u

RAW SEQUENCE LISTING

DATE: 07/28/2004

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TIME: 15:47:41

Input Set : A:\228234_5.doc

Output Set: N:\CRF4\07282004\J669162B.raw

7586 <400> SEQUENCE: 396

E--> 7587 nnnnnnnnnn nyuguca

27-17

VERIFICATION SUMMARY

DATE: 07/28/2004

PATENT APPLICATION: US/10/669,162B

TIME: 15:47:42

Input Set : A:\228234_5.doc

Output Set: N:\CRF4\07282004\J669162B.raw

L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:120
M:341 Repeated in SeqNo=3
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:179 M:254 (E) No. of Bases conflict, LENGTH:Input:0 Counted:36 SEQ:8 ✓
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:207 M:254 (E) No. of Bases conflict, LENGTH:Input:0 Counted:51 SEQ:9 ✓
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
M:341 Repeated in SeqNo=10
L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
M:341 Repeated in SeqNo=15
L:346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
M:341 Repeated in SeqNo=16
L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
M:341 Repeated in SeqNo=17
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:381 M:254 (E) No. of Bases conflict, LENGTH:Input:0 Counted:22 SEQ:18 ✓
L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
M:341 Repeated in SeqNo=21
L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
M:341 Repeated in SeqNo=22
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
M:341 Repeated in SeqNo=23
L:470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
M:341 Repeated in SeqNo=24
L:485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
M:341 Repeated in SeqNo=25
L:500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
M:341 Repeated in SeqNo=26
L:517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
M:341 Repeated in SeqNo=27
L:532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
M:341 Repeated in SeqNo=28
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
M:341 Repeated in SeqNo=29
L:563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
M:341 Repeated in SeqNo=30
L:579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
M:341 Repeated in SeqNo=31
L:595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0

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Input Set : A:\228234_5.doc

Output Set: N:\CRF4\07282004\J669162B.raw

M:341 Repeated in SeqNo=32
 L:611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
 M:341 Repeated in SeqNo=33
 L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
 M:341 Repeated in SeqNo=34
 L:1069 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:23 SEQ:60 ✓
 L:1655 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:98'
 L:1656 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:51 SEQ:98
 L:7201 M:252 E: No. of Seq. differs, <211> LENGTH:Input:30 Found:31 SEQ:379 ✓
 L:7417 M:254 E: No. of Bases conflict, LENGTH:Input:19 Counted:18 SEQ:388 ✓
 L:7417 M:252 E: No. of Seq. differs, <211> LENGTH:Input:19 Found:18 SEQ:388 ✓
 L:7523 M:254 E: No. of Bases conflict, LENGTH:Input:43 Counted:44 SEQ:393 ✓
 L:7523 M:252 E: No. of Seq. differs, <211> LENGTH:Input:43 Found:44 SEQ:393 ✓
 L:7587 M:254 E: No. of Bases conflict, LENGTH:Input:27 Counted:17 SEQ:396 ✓
 L:7587 M:252 E: No. of Seq. differs, <211> LENGTH:Input:27 Found:17 SEQ:396 ✓
 L:22 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (377) Counted (410)

Use of n and / or Xaa has been detected in the
 Sequence Listing. Review the Sequence Listing
 to ensure a corresponding explanation is present
 in the <220> to <223> fields of each sequence
 using n or Xaa.